

AMENDMENTS TO THE CLAIMS:

1.(original): A communication apparatus for communicating with a plurality of stations and executing regulation control at a time of congestion, comprising:

congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level;

traffic measuring means for measuring a traffic intensity;

traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed; and

regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

2.(original): The communication apparatus according to claim 1, wherein said congestion monitoring means uses at least one of a processor occupancy rate and a response time with respect to a received signal as an index at a time of setting said congestion level.

3.(original): The communication apparatus according to claim 1, wherein said regulation control means executes said traffic regulation control by changing stations to be regulated and a number of said stations to be regulated.

4.(original): The communication apparatus according to claim 1, wherein said

regulation control means counts a number of signals received from a station to be regulated and computes a ratio of a signal to be regulated from a count value, whereby said regulation control means executes said traffic regulation control with a same congestion level in accordance with said ratio.

5.(original): A mobile communication system for communicating with a plurality of stations and executing regulation control at a time of congestion, comprising:

a plurality of mobile communication exchanges for performing exchange control on signals with respect to radio stations; and

a mobile communication control station including a communication apparatus comprising congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level, traffic measuring means for measuring a number of signals received from said mobile communication exchanges as a traffic intensity, traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed, and regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

6.(original): The mobile communication system according to claim 5, wherein said congestion monitoring means uses at least one of a processor occupancy rate and a response time with respect to a received signal as an index at a time of setting said congestion level.

7.(original): The mobile communication system according to claim 5, wherein said regulation control means executes said traffic regulation control by changing mobile communication exchanges to be regulated and a number of said mobile communication exchanges to be regulated.

8.(original): The mobile communication system according to claim 5, wherein said regulation control means counts a number of signals received from a mobile communication exchange to be regulated and computes a ratio of a signal to be regulated from a count value, whereby said regulation control means executes said traffic regulation control with a same congestion level in accordance with said ratio.

9.(original): A mobile communication control station for communicating with a plurality of stations and executing regulation control at a time of congestion, comprising:

congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level;

traffic measuring means for measuring a number of signals received from a plurality of mobile communication exchanges as a traffic intensity;

traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed; and

regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and

operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

10.(original): A client/server system for communicating with a plurality of clients and executing regulation control at a time of congestion, comprising:

a plurality of client units for requesting services;

a server unit comprising congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level, traffic measuring means for measuring a number of signals received from said client units as a traffic intensity, traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed, and regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

11.(original): The client/server system according to claim 10, wherein said congestion monitoring means uses at least one of a processor occupancy rate and a response time with respect to a received signal as an index at a time of setting said congestion level.

12.(original): The client/server system according to claim 10, wherein said regulation control means executes said traffic regulation control by changing client units to be regulated and a number of said client units to be regulated.

13.(original): The client/server system according to claim 10, wherein said regulation control means counts a number of signals received from a client unit to be regulated and computes a ratio of a signal to be regulated from a count value, whereby said regulation control means executes said traffic regulation control with a same congestion level in accordance with said ratio.

14.(original): A server unit for communicating with a plurality of clients and executing regulation control at a time of congestion, comprising:

congestion monitoring means for monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level;

traffic measuring means for measuring a number of signals received from said clients as a traffic intensity;

traffic comparison means for comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed; and

regulation control means for performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

15.(original): A congestion regulation control method of communicating with a plurality of stations and executing regulation control at a time of congestion, comprising the

steps of:

monitoring a congestion state, setting a congestion level and determining whether or not to perform regulation based on said congestion level;
measuring a number of received signals as a traffic intensity;
comparing said traffic intensity with a preset traffic-regulation start traffic intensity when it is determined that regulation is to be performed; and
performing traffic regulation control when a comparison result shows that said traffic intensity is equal to or greater than said traffic-regulation start traffic intensity, and performing regulation control on a maintenance and operation process when said traffic intensity is smaller than said traffic-regulation start traffic intensity.

16.(original): The congestion regulation control method according to claim 15, wherein at least one of a processor occupancy rate and a response time with respect to a received signal is used as an index at a time of setting said congestion level.

17.(original): The congestion regulation control method according to claim 15, wherein said traffic regulation control is carried out by changing stations to be regulated and a number of said stations to be regulated.

18.(original): The congestion regulation control method according to claim 15, wherein a number of signals received from a station to be regulated is counted and a ratio of a signal to be regulated is computed from a count value, whereby said traffic regulation control is executed with a same congestion level in accordance with said ratio.